

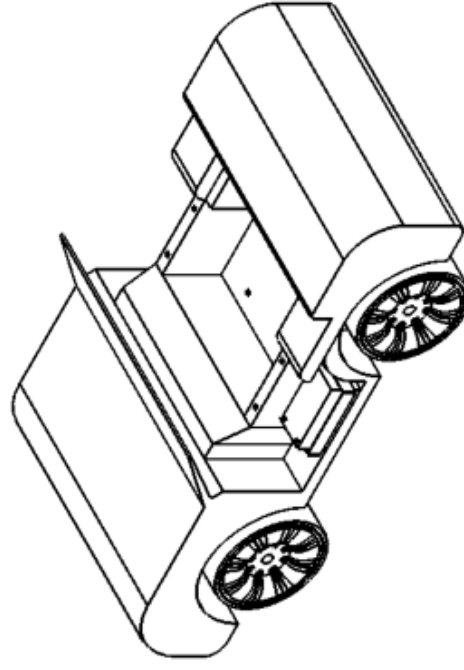
Mechanical properties of standard steels

Designation		Tensile strength, σ_u		Yield stress, σ_{sy}	
New	Old	MPa	kpsi	MPa	kpsi
Fe 290	(St 30)	290	42.0	170	24.7
Fe E 220	—	290	42.0	220	32.0
Fe 310	(St 32)	310	45.0	180	26.1
Fe E 230	—	310	45.0	230	33.4
Fe 330	(St 34)	330	47.9	200	29.0
Fe F 250	—	330	47.9	250	36.3
Fe 360	(St 37)	360	52.2	220	32.0
Fe F 270	—	360	52.2	270	39.2
Fe 410	(St 42)	410	59.5	250	36.3
Fe E 310	—	410	59.5	310	50.0
Fe 490	(St 50)	490	71.1	290	42.0
Fe E 370	—	490	71.1	370	53.7
Fe 540	(St 55)	540	78.3	320	46.4
Fe E 400	—	540	78.3	400	58.0
Fe 620	(St 63)	620	90.0	380	55.1
Fe E 460	—	620	90.0	460	66.7
Fe 690	(St 70)	690	100.0	410	59.5
Fe E 520	—	690	100.0	520	75.4
Fe 770	(St 78)	770	111.7	460	66.7
Fe E 580	—	770	111.7	580	84.1
Fe 870	(St 88)	870	126.2	520	75.4
Fe E 650	—	870	126.2	650	94.3

Note: a^* area of cross-section of test specimen.

Source: IS 1570, 1978.

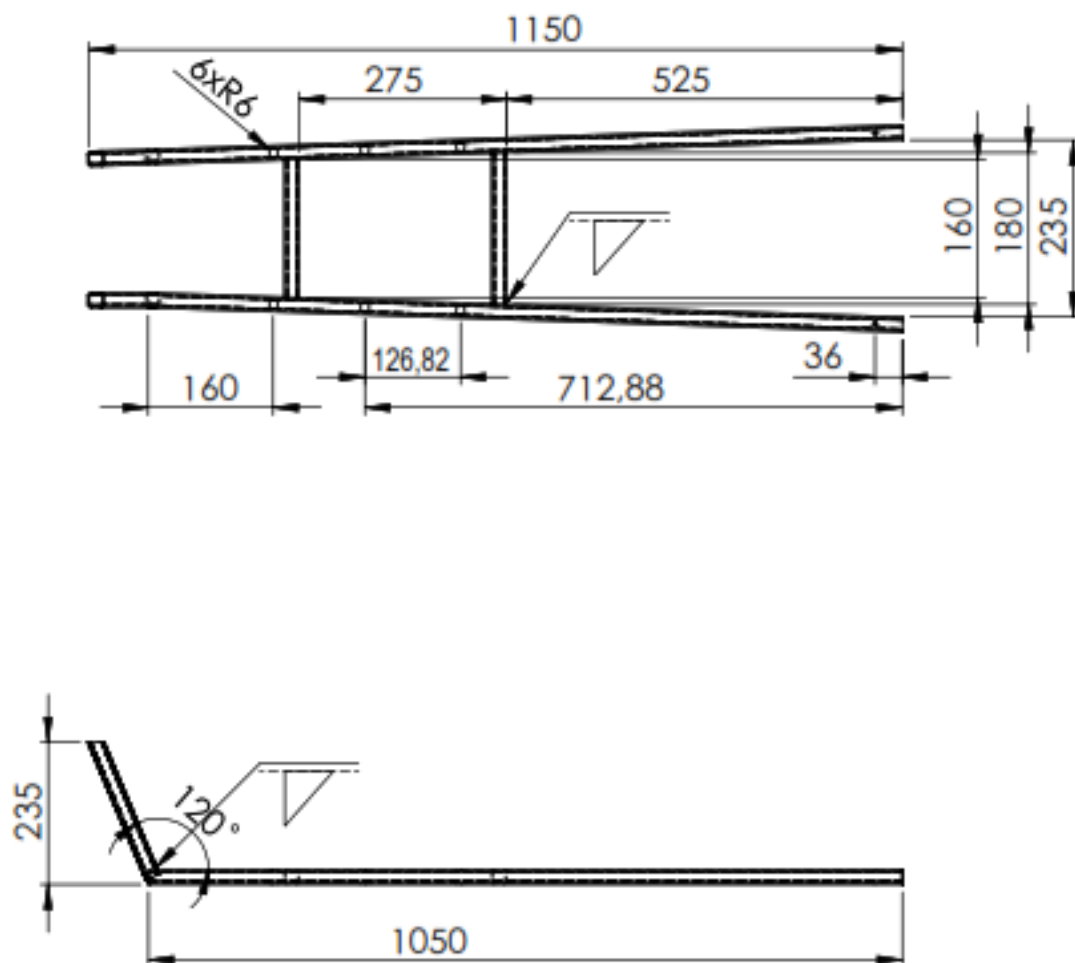
Technical drawing of the side profile of a car, showing dimensions and radii. The drawing includes a front wheel with a 206.48 mm offset, a rear wheel with a 250 mm offset, and a total width of 1185.38 mm. Radii are specified as R140, R160, and R100.

Mini electric car

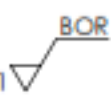
POLITEKNIK NEGERI SRIWIJAYA

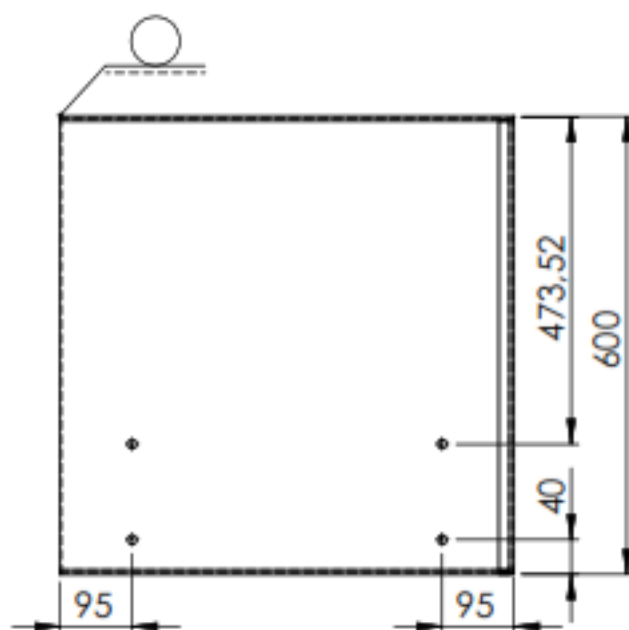
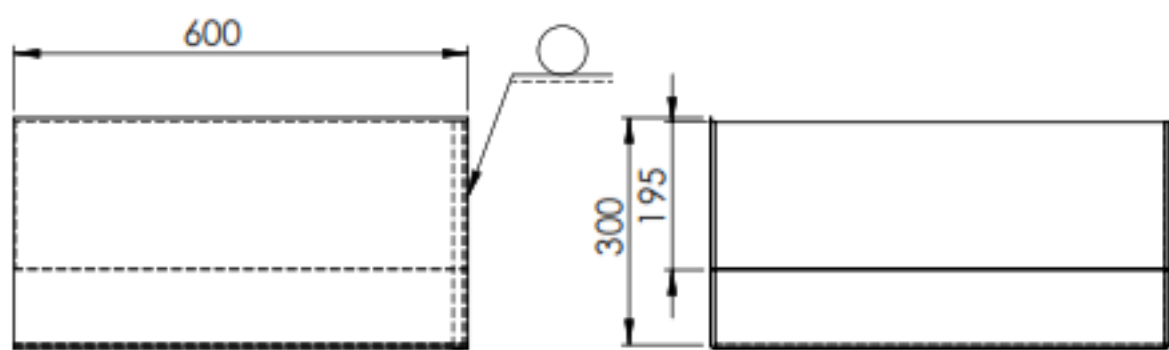
DRAME NO.02/6MC

5. TOL $\pm 0,1$  BORE, GRINDING



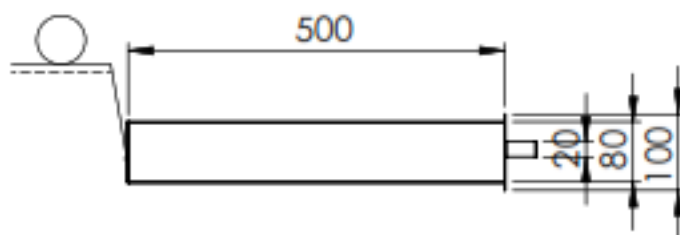
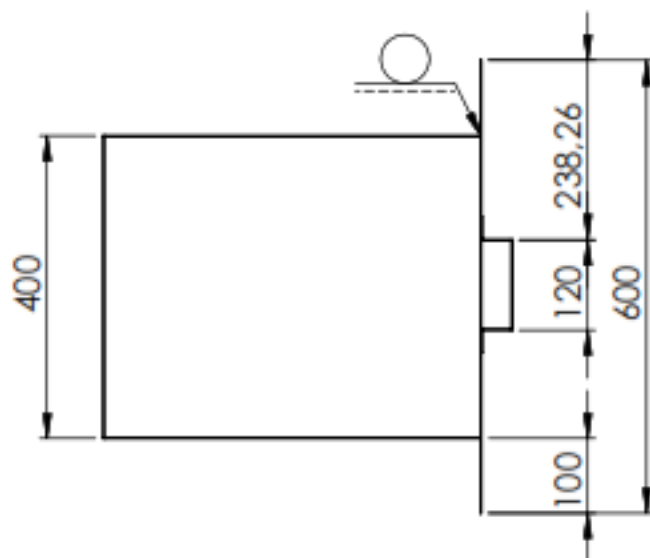
0	0	1	RANGKA BAWAH	7	FE 360	1050 x 255 x 235	Dibuat
JUMLAH			NAMA BAGIAN	No.BGM	MATERIAL	UKURAN	KETERANGAN
III	II	I	Perubahan :				
			RANGKA BAWAH			skala 1:10	Digambar 16/07/18 Agung Nugraha
						Diperiksa	
			JURUSAN TEKNIK MESIN POLITEKNIK NEGERI SRIWIJAYA			DRAME NO.5/TA/6 MC	

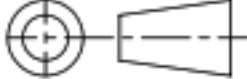
3. TOL $\pm 0,1$ 

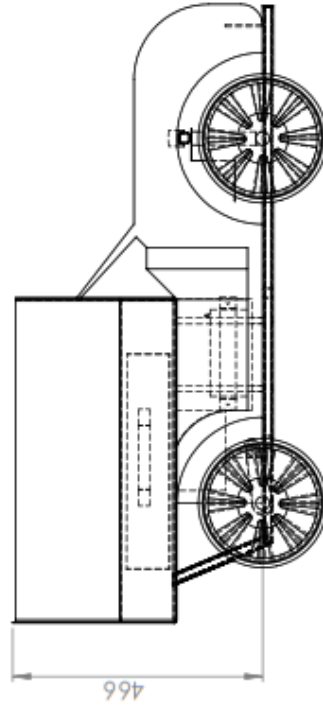
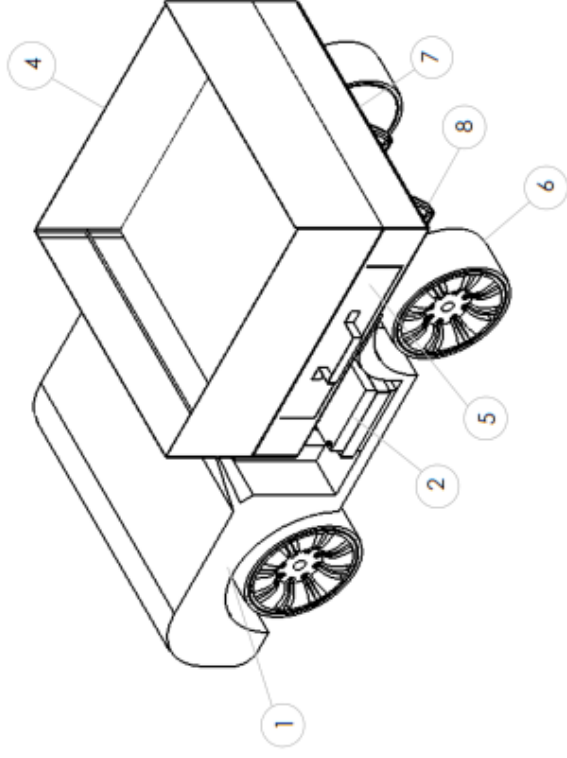
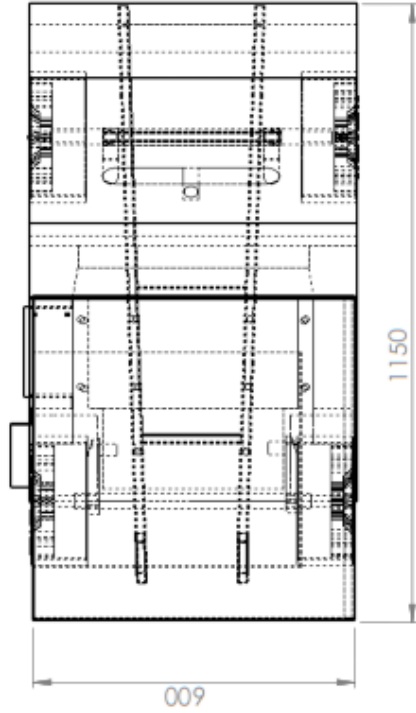


0	0	1	Toolbox	3	FE 360	600 X 600 X 300	Dibuat
JUMLAH			NAMA BAGIAN	No.BGM	MATERIAL	UKURAN	KETERANGAN
			Perubahan :				
			Toolbox			skala 1 : 10	Digambar 16/07/18 AGUNG NUGROHO
						Diperiksa	
			JURUSAN TEKNIK MESIN POLITEKNIK NEGERI SRIWIJAYA			DRAME NO. 3/TA/6 MC	

4. TOL $\pm 0,1$



0	0	1	LACI	4	FE 360	500 x 400 x 80	Dibuat
JUMLAH			NAMA BAGIAN	No.BGM	MATERIAL	UKURAN	KETERANGAN
III	II	I	Perubahan :				
			LACI			skala 1 : 10	Digambar 16/07/18 AGUNG NUGROHO
						Diperiksa	
JURUSAN TEKNIK MESIN POLITEKNIK NEGERI SRIWIJAYA						DRAME NO.4/TA/6 MC	



0	0	1	RANGKA BAWAH	7	FE 360	1050 x 255 x 235	Dibuat
0	0	2	RODA	6	KARET	ø24 x 90	Dibeli
0	0	2	MOTOR DC	5	Standar	Standar	Dibeli
0	0	1	LACI	4	FE 360	500 x 400 x 80	Dibuat
0	0	1	TOOLBOX	3	FE 360	600 x 600 x 300	Dibuat
0	0	1	BATERAI	2	Standar	Standar	Dibeli
0	0	1	MINI ELECTRIC CAR	1	PLASTIK	1150 x 600 x 462	Dibeli
Jumlah			NAMA BAGIAN	No. BGN	MATERIAL	UKURAN	KETERANGAN
III	II	I	Perubahan :				
						SKALA 1 : 10	Agung Nugroho
						DIPERIKSA	
						DRAME NO.01/5MC	